Page 2

IN THE CLAIMS:

- 1. (Currently Amended) A thermoplastic resin composition for laser welding comprising:
 - 1) thermoplastic resin; and
- 2) laser-transmitting black colorant comprising amine salts of anthraquinone dye and monoazo <u>metal</u> complex dye.
- 2. (Currently Amended) A themoplastic thermoplastic resin composition for laser welding comprising:
 - 1) thermoplastic resin; and,
 - 2) laser-transmitting black colorant comprising a mixture of
- a) amine salt of anthraquinone dyes of formula [I] or formula [II] wherein Formula formula [I] is:

$$\begin{bmatrix} R^{8} & O & R^{1} \\ R^{7} & & & \\ R^{6} & & & \\ R^{5} & O & R^{4} \end{bmatrix} R^{2}$$

$$K^{1}(Z)^{n+1}$$

wherein R¹ to R8, which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, hydroxy, halogen atom, acyl, acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, cyclohexylamide, sulfonyl, formula [I-a], or -Y-W, and at least one of R¹ to R8 is of formula [I-a]; wherein Y is S, O, or NH; and wherein W is selected from unsubstituted or substituted alkyl group, alkenyl group, and unsubstituted or substituted aryl group; wherein (Z)n+ represents a cation derived from an organic amine compounds or a basic dye; wherein n is 1 or 2, m¹ is an integer from 1 to 4 and K¹ is the ratio of m¹ / n;

and wherein formula [I-a] is:

Page 3

$$R^9$$
 R^{10}
 R^{11}
 R^{12}

wherein X is O or NH, and R⁹ to R¹³, which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, N-alkylamide, N-arylamide, hydroxy, halogen atom, acyl, acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, or sulfonyl; wherein at least one of R¹ to R⁸ and R⁹ to R¹³ is sulfonyl group wherein at least one of R¹ to R¹³ is sulfonyl group; wherein formula [II] is:

wherein R⁴⁷ to R⁵², which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, N-alkylamide, N-arylamide, hydroxy, halogen atom, acyl, acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, or sulfonyl; and at least one of R⁴⁷ to R⁵² is of sulfonyl, and fomula J in formula [II] is selected from formula [II-a] or formula [II-b] and binds two anthraquinone formula [II-a] anthraquinone; wherein formula [II-a] is:

or

formula [II-b]:

wherein R⁵³ to R⁵⁴, which may be the same or different, are independently selected from the group consisting of alkyl(having 1 to 8 carbon atoms) or hydrogen,

Page 4

and wherein $(F)^{h+}$ represents ammonium ion or a cation derived from an organic amino compounds or a basic dye wherein h is 1 or 2, m^4 is an integer from 1 to 4 and K^4 is the ratio of m^4 / h, and

b) monoazo <u>metal</u> complex dye represented by the formula [III] formula [III]:

wherein R^{39} , R^{41} , which may be the same or different, are CI, $SO_2(-R^{44})(-R^{45})$, or SO_2R^{43} ; R^{44} and R^{45} , which may be the same or different, are independently hydrogen atom, liner or branched C1-C4 alkyl, R^{43} is linear or branched C1-C4 alkyl; R^{40} and R^{42} , which may be the same or different, are hydrogen, liner or branched C1-C18 alkyl group, liner or branched C2-C18 alkenyl group, sulfonamide group, carboxyl group, mesyl group, hydroxyl group, C1-C18 alkoxy group, acethylamino group, benzoylamino group, halogen atom or -CONH- R^{46} ; R^{46} is functional group selected from unsubstituted or substituted liner or branched C1-C18 alkyl or unsubstituted or substituted C6-C18 aryl group; L_1 and L_2 are independently O or COO; $(E)^+$ are H^+ , cation of alkali metal, ammonium ion, cations of organic amine including aliphatic primary, secondary and tertiary amines, quaternary ammonium ion; K^3 is an integer; K^4 is a metal having ionic valency from 2 to 4.

3.(Cancelled)

Application No.: 10/673012

Docket No.: AD6757USCNT Page 5

4.(Cancelled)

5. (Original) The composition of Claim 1 wherein the thermoplastic resin is polyamide or polyester.

- 6. (Original) The composition of claim 1 further comprising reinforcing agent.
- 7. (Original) The transparent article for laser beam welding formed from the composition of Claim 1.
- 8. (Original) An article formed by laser welding an opaque article for laser beam with the transparent article of Claim 6 using said laser beam.
- 9. (Currently Amended) A black colorant suitable for being mixed with a thermoplastic resin used in laser welding applications applied to a laser welding comprising a mixture of
- a) amine salts of anthraquinone dyes of formula [I] or formula [II] wherein Formula [I] is:

$$\begin{bmatrix} R^{7} & R^{8} & O & R^{1} \\ R^{7} & R^{2} & R^{3} \end{bmatrix} R^{1}$$

$$R^{6} & R^{5} & O & R^{4}$$

$$R^{6} & R^{3} & R^{3}$$

wherein R¹ to R⁸, which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, hydroxy, halogen atom, acyl., acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, cyclohexylamide, sulfonyl, formula [I-a], or -Y-W, and at least one of R1 to R8 is of formula [I-a]; wherein Y is S, O, or NH; and wherein W is selected from unsubstituted or substituted alkyl group, alkenyl group, and unsubstituted or substituted aryl group; wherein (Z)ⁿ⁺ represents a cation derived from an organic amine compounds or a basic dye; wherein n is 1 or 2, m¹ is an integer from 1 to 4 and K¹ is the ratio of m¹ / n;

and wherein formula [I-a] is:

$$-X$$
 R^{13}
 R^{10}
 R^{10}

Page 6

wherein X is O or NH, and R⁹ to R¹³, which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, N-alkylamide, N-arylamide, hydroxy, halogen atom, acyl, acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, or sulfonyl; wherein at least one of R¹ to R¹³ is sulfonyl group wherein at least one of R¹ to R¹³ is sulfonyl group wherein formula [II] is:

wherein R⁴⁷ to R⁵², which may be the same or different, are independently selected from the group consisting of H, alkyl, aryl, alkenyl, alkoxy, amino, N-alkylamide, N-arylamide, hydroxy, halogen atom, acyl, acyloxy, acylamide, acyl-N-alkylamide, carboxyl, alkoxycarbonyl, or sulfonyl; and at least one of R⁴⁷ to R⁵² is of sulfonyl, and fomula J in formula [II] is selected from formula [II-a] or formula [II-b] and binds two anthraquinone; formula [II-a]:

Page 7

or

formula [II-b]:

wherein R^{53} to R^{54} , which may be the same or different, are independently selected from the group consisting of alkyl(having 1 to 8 carbon atoms) or hydrogen, and wherein $(F)^{h+}$ represents ammonium ion or a cation derived from an organic amino compounds or a basic dye wherein h is 1 or 2, m^4 is an integer from 1 to 4 and K^4 is the ratio of m^4 / h, and

b) monoazo <u>metal</u> complex dye represented by the formula [III] formula [III]:

wherein R^{39} , R^{41} , which may be the same or different, are Cl, $SO_2(-R^{44})(-R^{45})$, or SO_2R^{43} ; R^{44} and R^{45} , which may be the same or different, are independently hydrogen atom, liner or branched C1-C4 alkyl, R^{43} is linear or branched C1-C4 alkyl; R^{40} and R^{42} , which may be the same or different, are hydrogen, liner or branched

Application No.: 10/673012

Docket No.: AD6757USCNT Page 8

C1-C18 alkyl group, liner or branched C2-C18 alkenyl group, sulfonamide group, carboxyl group, mesyl group, hydroxyl group, C1-C18 alkoxy group, acethylamino group, benzoylamino group, halogen atom or -CONH-R⁴⁶; R⁴⁶ is functional group selected from unsubstituted or substituted liner or branched C1-C18 alkyl or unsubstituted or substituted C6-C18 aryl group; L_1 and L_2 are independently O or COO; (E)⁺ are H⁺, cation of alkali metal, ammonium ion, cations of organic amine including aliphatic primary, secondary and tertiary amines, quaternary ammonium ion; K³ is an integer; m³ is 0, 1 or 2; and M¹ is a metal having ionic valency from 2 to 4.

- 10. (Cancelled) The composition of Claim 8 wherein the laser-transmitting black colorant comprises amine salts of anthraquinone dye of formula [I] where as at least one of R⁹-R¹⁰, R¹¹, R¹²-and R¹³ of formula [I-a] is sulfonyl group.
- 11. (Currently Cancelled)
- 12 (New) The composition of Claim 2 wherein the laser-transmitting black colorant comprises amine salts of anthraquinone dye of formula [I] wherein at least one of R⁹, R¹⁰, R¹¹, R¹² and R¹³ of formula [I-a] is sulfonyl group.
 - 13. (New) The composition of Claim 2 wherein the amount of the amine salts of anthraquinone dyes of formula [I] or formula [II] compared to the amount of monoazo complex dyes of the formula [III] is in a ratio of from 5:1 to 1:1.
- 14. (New) The black colorant of Claim 9 wherein the laser-transmitting black colorant comprises amine salts of anthraquinone dye of formula [I] where as at least one of R⁹, R¹⁰, R¹¹, R¹² and R¹³ of formula [I-a] is sulfonyl group.
- 15. (New) The black colorant of Claim 9 wherein the ratio of amount of the amine salts of anthraquinone dyes of formula [I] or formula [II] to that of monoazo complex dyes of the formula [III] is from 5:1 to 1:1.

Application No.: 10/673012

Docket No.: AD6757USCNT Page 9

16. (New). The composition of Claim 1 wherein said monoazo metal complex dye is a 1:2 type monoazo metal complex dye.

- 17. (New) The composition of Claim 1 wherein the amine salts of anthraquinone dye and the monoazo metal complex dye are present in a ratio of from 5:1 to 1:1.
- 18. (New) The composition of Claim 16 wherein the amine salts of anthraquinone dye and the monoazo metal complex dye are present in a ratio of from 5:1 to 1:1.